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## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/937,009  
Source: PJ/09  
Date Processed by STIC: 5/15/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

**ERROR DETECTED**

**SUGGESTED CORRECTION**

SERIAL NUMBER: 001/437000

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X; (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (ii) SEQUENCE DESCRIPTION: SEQ ID NO:X; (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>  
    "bug"      Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 66:01/1998, Vol. 63, No. 104, pp 29631-32) (See 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide





# RAW SEQUENCE LISTING

Patent Application No: US/09/937,009

DATE: 05/01/02

TIME: 10:11:11

Input File: A:\P22517PC.txt

Output File: N:\CRF3\05152002\I937009.raw

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263 <210> SEQ ID NO: 8
265 <211> LENGTH: 11
267 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
279 <400> SEQUENCE: 8
281 Pro His Phe Pro Glu Phe Ser Thr Ser Ala Ser
282 1 5 10
189 <210> SEQ ID NO: 9
191 <211> LENGTH: 5
193 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
201 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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207 Thr Phe Cys Gly Thr Pro Glu Phe Leu
209 1 5
315 <210> SEQ ID NO: 10
317 <211> LENGTH: 10
319 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
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335 1 5
441 <210> SEQ ID NO: 11
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445 <212> TYPE: PRT
447 <213> ORGANISM: Artificial Sequence
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453 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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461 1 5 10
467 <210> SEQ ID NO: 12
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479 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
483 <400> SEQUENCE: 12
485 Arg Glu Arg Tyr Glu Ser His Pro Asp Ala Val Gln
487 1 5 10
495 <210> SEQ ID NO: 13
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499 <212> TYPE: PRT
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505 <220> FEATURE:
507 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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513 Arg Glu Arg Tyr Glu Ser His Pro Asp Ala Val Gln
515 1 5 10
523 <210> SEQ ID NO: 14
525 <211> LENGTH: 13
527 <212> TYPE: PRT
529 <213> ORGANISM: Artificial Sequence
533 <220> FEATURE:
535 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
539 <400> SEQUENCE: 14
541 Arg Glu Arg Tyr Glu Ser His Pro Asp Ala Val Gln
543 1 5 10

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## RAW SEQUENCE LISTING

PATENT APPLICATION NO. US09/937,009

FILED: 09/11/2001

INVENTOR: [REDACTED]

SEQUENCE ID NO.: A:P22517PU.txt

SEQUENCE ID NO.: N:CRE3\0515200J\1937009.raw

401 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence:peptide

402 &lt;400&gt; SEQUENCE: 11

403 Arg Thr Ala Ile Ala Ala Ile

404 1 11

415 &lt;210&gt; SEQ ID NO: 11

416 &lt;211&gt; LENGTH: 77

417 &lt;212&gt; TYPE: PRT

421 &lt;213&gt; ORGANISM: Artificial Sequence

425 &lt;220&gt; FEATURE:

427 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence:peptide

431 &lt;400&gt; SEQUENCE: 11

432 Glu Asp Val Lys Lys Lys His Leu Phe Thr Arg Ile Ile Asp Ile Ser Ala

435 1 11

436 Leu Met Asp Lys Lys Val Lys Pro Pro Phe Ile Pro Thr Ile Arg Gly

439 1 20

441 Arg Glu Asp Val Ser Asn Thr Asp Asp Ile Thr Ser Glu Ala Pro

447 20 35

451 Ile Leu Thr Pro Pro Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Glu

453 35 50

457 Glu Met Phe Arg Asp Phe Asp Tyr Ile Ala Asn Trp Lys

459 50 65

465 &lt;210&gt; SEQ ID NO: 15

466 &lt;211&gt; LENGTH: 77

469 &lt;212&gt; TYPE: PRT

471 &lt;213&gt; ORGANISM: Artificial Sequence

475 &lt;220&gt; FEATURE:

477 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence:peptide

481 &lt;400&gt; SEQUENCE: 15

482 Glu Asp Val Lys Lys Glu Pro Phe Phe Arg Thr Leu Gly Trp Glu Ala

485 1 15

489 Leu Leu Ala Arg Arg Leu Pro Pro Pro Phe Val Pro Thr Leu Ser Gly

491 15 20

495 Arg Thr Asp Val Ser Asn Phe Asp Glu Glu Phe Thr Gly Glu Ala Pro

497 20 35

501 Thr Leu Ser Pro Pro Arg Asp Ala Arg Pro Leu Thr Ala Ala Glu Glu

503 35 50

507 Ala Ala Thr Leu Asp Phe Asp Phe Val Ala Gly Glu Lys

509 50 65

515 &lt;210&gt; SEQ ID NO: 16

516 &lt;211&gt; LENGTH: 77

519 &lt;212&gt; TYPE: PRT

521 &lt;213&gt; ORGANISM: Artificial Sequence

525 &lt;220&gt; FEATURE:

527 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence:peptide

531 &lt;400&gt; SEQUENCE: 16

532 Glu Thr Lys Lys Lys Glu His Leu Phe Thr Arg Ile Ile Asp Ile Ser Ala

535 1 16

539 Thr Thr Ala Lys Lys Glu Ser Ile Arg Thr Thr Thr Thr Val Thr Thr

541 16 31

# RAW SEQUENCE LISTING

SEQUENCE: 001-001 US/09/937,009

Input: Seq: A:\P22517PC.txt

Output: Seq: N:\CPFF3\05152002\1937009.raw

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545 Ala Thr Asp Thr Asn Tyr Phe Asp Gly Ala Phe Thr Ala Gly Met Thr
547      15      40      15
549 Thr Thr Thr Pro Pro Asp Gly Asp Asp Ser Met Gly Lys Val Asp Ser
551      15      25      40
553 Gly Arg Arg Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser Thr Ala
555      15      70      15      40
557 <210> SEQ ID NO: 17
559 <211> LENGTH: 75
561 <212> TYPE: PRT
563 <213> ORGANISM: Artificial Sequence
565 <220> FEATURE
567 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
569 <400> SEQUENCE: 17
571 Gly Glu Val Gln Ala His Pro Phe Phe Arg His Ile Asn Trp Glu Glu
573      1      5      10      15
575 Leu Leu Ala Arg Lys Val Glu Pro Pro Phe Lys Pro Leu Leu Ile Ser
577      20      25      30
579 Glu Glu Asp Val Ser Gln Phe Asp Ser Lys Phe Thr Arg Gln Thr Pro
581      35      40      45
583 Val Asp Ser Pro Asp Asp Ser Thr Leu Ser Glu Ser Ala Asn Gln Val
585      50      55      60
587 Phe Leu Gly Phe Thr Tyr Val Ala Pro Ser Val
589      65      70      75
591 <210> SEQ ID NO: 18
593 <211> LENGTH: 82
595 <212> TYPE: PRT
597 <213> ORGANISM: Artificial Sequence
599 <220> FEATURE
601 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
603 <400> SEQUENCE: 18
605 Met Glu Ile Lys Ser His Val Phe Phe Ser Leu Ile Asn Trp Asp Asp
607      1      5      10      15
609 Leu Ile Asn Lys Lys Ile Thr Pro Pro Phe Asn Pro Asn Val Ser Gly
611      20      25      30
613 Pro Asn Glu Leu Arg His Phe Asp Pro Glu Phe Thr Glu Glu Pro Val
615      35      40      45
617 Pro Asn Ser Ile Gly Lys Ser Pro Asp Ser Val Leu Val Thr Ala Ser
619      50      55      60
621 Val Tyr Glu Ala Ala Glu Ala Phe Leu Gly Phe Ser Tyr Ala Pro Pro
623      65      70      75
625 Thr Ser
627 <210> SEQ ID NO: 19
629 <211> LENGTH: 76
631 <212> TYPE: PRT
633 <213> ORGANISM: Artificial Sequence
635 <220> FEATURE
637 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
639 <400> SEQUENCE: 19

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VERIFICATION SUMMARY

PATENT APPLICATION NO: US/09/937,009

DATE: 05/13/2002

TIME: 10:00:00

Input File: A:\P22517PC.txt

Output File: N:\CRF3\05152002\I937009.raw